PATENT COUPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 04S0800P	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No.	International filing date (day/month/year	r) Priority date (day/month/year)				
PCT/JP2004/012953	06.09.2004	08.10.2003				
International Patent Classification (IPC) or natio	onal classification and IPC	1				
G01N1/32, G01N1/28						
Applicant TOKYO ELECTRON LIMITE	ED					
This report is the international prelim under Article 35 and transmitted to the		y this International Preliminary Examining Authority				
2. This REPORT consists of a total of		icluding this cover sheet.				
3. This report is also accompanied by Al	NNEXES, comprising:					
·	to the International Bureau) a total of					
sheets of the descript	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
<u> </u>	, containing a sequence listing and/or tables					
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating	ng to the following items:					
Box No. I Basis of the	report					
Box No. II Priority						
Box No. III Non-establis	shment of opinion with regard to novelty	, inventive step and industrial applicability				
Box No. IV Lack of unit	ty of invention					
	tatement under Article 35(2) with regard to desplanations supporting such statement	to novelty, inventive step or industrial applicability;				
Box No. VI Certain docs	cuments cited					
Box No. VII Certain defe	ects in the international application					
Box No. VIII Certain obse	ervations on the international application					
Date of submission of the demand	Date of completion	on of this report				
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Name and mailing address of the IPEA/JP	Authorized office	a				
Facsimile No.	Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/012953

Box	No. I	Basis of the report				
1.		to the language, this report is based on the internation der this item.	nal application in the language in which it	was filed, unless otherwise		
		eport is based on translations from the original langua is the language of a translation furnished for the purp		· ,		
		international search (Rule 12.3 and 23.1(b))				
		publication of the international application (Rule 12.4))			
	international preliminary examination (Rule 55.2 and/or 55.3)					
2.	receiving Of this report):		report is based on (replacement sheets whe referred to in this report as "originally	nich have been furnished to the filed" and are not annexed to		
	$\overline{\square}$	ternational application as originally filed/furnished				
		escription:		as originally 61-346 of 1-1		
	pages			as originally filed/furnished		
	pages					
	pages		received by this Authority on	341.		
	the cla					
	nos.	1-8, 10, 12, 14-18		as originally filed/furnished		
	nos.*		as amended (together with ar			
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	nos.*		received by this Authority on			
	the dr	rawings:				
	sheets	fig. 1-12		as originally filed/furnished		
	sheets	ş*	received by this Authority on			
1	sheets	s*	received by this Authority on			
	a sequ	uence listing and/or any related table(s) - see Supplem	nental Box Relating to Sequence Listing.			
3.	The a	amendments have resulted in the cancellation of:				
]		the description, pages				
	\boxtimes	the claims, nos. 11, 19, 20	And the second s			
		the sequence listing (specify):				
4.		report has been established as if (some of) the amend				
	they	have been considered to go beyond the disclosure as fi	iled, as indicated in the Supplemental Box	(Rule 70.2(c)).		
	닏	the description, pages				
	\Box	the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
*	If item 4 ap	oplies, some or all of those sheets may be marked "sup	perseded."			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/012953

DOX			icle 35(2) with regard to novelty, inventive step or industrial applicability porting such statement	•
1.	Statement			
	Novelty (N)	Claims	1-10, 12-18, 21-23	YE:
		Claims		NO
Inventive step (IS)	Claims	1-10, 12-18, 21-23	YE	
	Claims		NO	
Industrial applicability (IA)	Claims	1-10, 12-18, 21-23	YE	
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 2003-202278 A (Toshiba Corp.), 18 July 2003
 - Document 2: JP 2003-522708 A (Tokyo Electron Ltd.), 29

 July 2003 & EP 1261761 A
 - Document 3: JP 2001-223251 A (Tokyo Electron Ltd.), 17

 August 2001

Claims 1 to 10, 12 to 18 and 21 to 23

Document 1 (in particular, refer to the drawings and paragraphs [0009], [0020] and [0023]) discloses a processing device for degrading sample materials which is suitable for carrying out an analysis of the impurities within any prescribed region of a sample material, said processing device being equipped with a substantially cylindrical pressing member that is capable of pressing apply the surface of the sample material to be processed in order to drip and then retain a solution upon the surface of said sample material. Therein, document 1 further indicates that the constituent members of the processing device are configured from a polytetrafluoroethylene resin.

Meanwhile, documents 2 and 3 disclose methods for assaying the impurities within the quartz member that is

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

employed during the processing of a semiconductor wafer, wherein a processing solution that comprises an etching solution is dripped and then retained upon the sample material so that the impurities from the sample material dissolve into the etching solution, whereafter the metals within the impurity-containing etching solution are assayed by means of inductively coupled plasma mass spectrometry or the like. Furthermore, documents 2 and 3 also indicate that it is possible to adjust the processing period and the processing conditions so as to achieve a target etching depth.

However, the feature wherein the inspection assisting device, which is used when the processing solution is applied to the targeted section of the rod-like quartz member in the semiconductor treatment apparatus, is configured from end plates that engage with the recessed parts of the rod-like members, a frame that connects said end plates and a liquid receiving part that is formed between the end plates is not disclosed in any of the documents that are cited in the international search report, and would not have been obvious to a person skilled in the art.

In addition, the annular member that is used when the processing solution is applied to the targeted section of the rod-like quartz member in the semiconductor treatment apparatus, wherein a seal member is provided to the bottom surface of the annular member and an embedded magnet is further provided thereto, is not disclosed in any of the documents that are cited in the international search report, and would not have been obvious to a person skilled in the art.

provided for correlating observed characteristics of each one of a set of users with a set of adaptable marketing features. The characteristics include (a) at least one of the user's attributes, or (b) at least one of the user's preferences. The data mining engine is trained with a set of training data that includes the user database. A predetermined characteristic is first input to the data mining engine that pertains to the marketing campaign. In response thereto, the data mining engine provides a subset of the users in the data base having the highest correlation to the characteristic. A set of user attributes is then input to the data mining engine from the subset of the users, and, in response thereto, the data mining engine provides a subset of the adaptable marketing features having the highest correlation to the set of user attributes. The method then monitoring observed responses to the marketing campaign cycle and updates the user database based upon the observed responses. Subsequent to this update the method repeats the first and second inputting steps to obtain an updated subset of users and an updated subset of marketing features.

The features of the invention recited in claim 61 are neither shown nor suggested in the Thearling patent, either alone or in combination with the Walter et al patent. Contrary to the Examiner's assertion, Thearling does not suggest inputting a set of user attributes to a data mining engine from the subset of the users, and, in response thereto, the data mining engine providing a subset of the adaptable marketing features having the highest correlation to the set of user attributes. The Examiner cites col 3, line 58 through col 4 line 35 (See office action at page 15) as teaching this feature. This section of the Thearling patent has to do with eliminating duplicate records from the results of multiple queries and does not return a subset of adaptable market features as recited in claim 61. Since the subject matter of claim 61 is neither shown nor suggested by the Examiner's combination of patents, this claim is allowable.

Claims 62 and 64 depend from allowable claim 61 and are also allowable.

All claims presently pending in this application are in condition for allowance and a prompt notification of allowance is requested.

Respectfully Submitted,

Styphur Schultz.
Stephen J. Schultz, Reg No. 29,108

Attachment: Claims with bracketing and underlining

Claims with bracketing and underlining.

 (Twice Amended) A method for managing a marketing campaign, comprising: providing a data mining engine capable of being trained with training data; and capable thereafter of performing inferences relative to the training data and on additional data;

providing a user database [defining the] <u>containing</u> observed characteristics of each one of a set of users, the characteristics comprising at least one of: (a) at least one of the user's attributes, (b) at least one of the user's preferences;

training the data mining engine with a set of training data comprising the user [data base] <u>database</u> by clustering the user database into different segments of users distinguished by different states of [a characteristic] one or more characteristics;

inputting to the data mining engine a predetermined characteristic pertaining to the marketing campaign and, in response thereto, obtaining from the data mining engine a subset of the users in the data base having the highest correlation to the characteristic by determining which of the segments found during clustering of the user [data base] database has the highest statistical correlation to the predetermined characteristic.

21. (Twice Amended) A method of personalizing marketing resources, comprising:

providing a data mining engine capable of being trained with training data and capable thereafter of performing inferences relative to the training data;

providing a user [data base] <u>database</u> correlating observed characteristics of each one of a set of users with a set of adaptable marketing features, the characteristics comprising [at least one of]: (a) at least one of the user's attributes, <u>and</u> (b) at least one of the user's preferences;

training the data mining engine with a set of training data comprising the user [data base] <u>database</u> by clustering the users in the database into <u>user</u> segments [of users] with similar characteristics;

inputting to the data mining engine a set of user attributes of one of: (a) a particular user, (b) a particular group of users; and, in response thereto,

obtaining from the data mining engine a subset of the adaptable marketing features having the highest correlation to the set of user attributes by determining which of the segments has characteristics that are statistically correlated with the set of user attributes; and wherein the subset of <u>adaptable</u> marketing features is determined based upon the preferences of <u>users in</u> the <u>user</u> segments statistically correlated to the set of user attributes.

31. (Twice Amended) A method of controlling the marketing resources of a site having a real-time user interface during a visit to the site by a particular user, comprising:

providing a data mining engine capable of being trained with training data and capable thereafter of performing inferences relative to the training data;

providing a user database correlating observed characteristics of each one of a set of users with a set of adaptable marketing features, the characteristics comprising at least one of: (a) user attributes, (b) user preferences;

training the data mining engine with a set of training data comprising the user database by clustering the users in the data base into segments of users with similar characteristics;

inputting to the data mining engine a set of user attributes of the particular user and, in response thereto, obtaining from the data mining engine a subset of the adaptable marketing features having the highest correlation to the set of user attributes by determining which of the segments has characteristics that are statistically correlated with the set of user attributes; and wherein

the subset of <u>adaptable</u> marketing features is determined based upon the preferences of the segments statistically correlated to the set of user attributes..

61. (Twice Amended) A method for managing a marketing campaign, comprising: providing a data mining engine capable of being trained with training data and capable thereafter of performing inferences relative to the training data;

providing a user database correlating observed characteristics of each one of a set of users with a set of adaptable marketing features, the characteristics comprising at least one of: (a) at least one of the user's attributes, (b) at least one of the user's preferences;

training the data mining engine with a set of training data comprising the user

database;

first inputting to the data mining engine a predetermined characteristic pertaining to the marketing campaign and, in response thereto, obtaining from the data mining engine a subset of the users in the data base having the highest correlation to the characteristic;

second inputting to the data mining engine a set of user attributes of the subset of the users, and, in response thereto, obtaining from the data mining engine a subset of the adaptable marketing features having the highest correlation to the set of user attributes;

monitoring observed responses to the marketing campaign cycle and updating the user database based upon the observed responses; and

repeating the first and second inputting to obtain an updated subset of users and an updated subset of <u>adaptable</u> marketing features.